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SHALE OIL PROJECT**

SOCIOECONOMIC MONITORING REPORT

**NUMBER 9
THIRD QUARTER REPORT
1980**



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INTRODUCTION

This is the ninth socioeconomic monitoring report issued by the Cathedral Bluffs Shale Oil Company. The purpose of the report is to provide local communities with selected information on the C-B project work force.

The first and third monitoring reports do not include the up-dated community data which is normally included only in mid-year and year-end monitoring reports.

The work force data presented in this report reflects current conditions as of October, 1980. The information on the work force was collected through a questionnaire completed by employees when they started work at the Cathedral Bluffs site. Completed surveys are available from 83 percent of the current work force. The surveys were coded and analyzed through a computerized data base management system.

I. THE CATHEDRAL BLUFFS WORK FORCE

On October 1, 1980, there were 494 persons employed at the Cathedral Bluffs site. The total work force has increased by 189 employees since the first of the year. The number of permanent employees has risen to 120 persons. Twenty-four percent of the employees at the site are permanent while the other seventy-six percent hold construction or temporary jobs at the site.

The total work force has risen above the projected 450 persons for 1980. The revised manpower projections were prepared for the project in February, 1980. Figure A reflects these revised projections, as well as actual work force data.

A. Housing

1. Location

The residential distribution of project personnel has remained relatively constant as the total project employment has increased. The percentage of project employees residing in Meeker has risen over the year, while those residing in Rifle has decreased. Table I shows the percentage of employees residing in local communities for January and October, 1980. The percentage of workers residing in Rifle full-time is 92, while eight percent reside there only on weekdays. Since January, the percentage of workers residing in Meeker on weekdays only has dropped from seventeen percent to ten percent. Table II shows the percent of those surveyed who reside in each community full-time or on weekdays only.

TABLE I
PLACE OF RESIDENCE

	Percentage of Workers Surveyed Residing There January 1980 N=256	Percentage of Workers Surveyed Residing There October 1980 N=409
Rifle	63	61
Meeker	11	14
Silt	5	6
Grand Junction Area	9	7
Glenwood Springs	1	2
New Castle	2	2
Parachute	2	2
Rangely	1	0
Other West Slope	1	1
Piceance Creek	1	0
Other Colorado	0	1
Outside Colorado	0	1
Unknown	3	3
Total	100	100

TABLE II
 PERCENTAGE OF WORKERS RESIDING IN COMMUNITIES
 FULL-TIME OR WEEK DAYS ONLY
 OCTOBER 1980

Community	Percent Residing in Community Full-Time	Percent Residing in Community Week Days Only	
Rifle	92	8	100%
Meeker	90	10	100%
Silt	96	4	100%
Grand Junction	100	0	100%
Total Work Force	93	7	100%

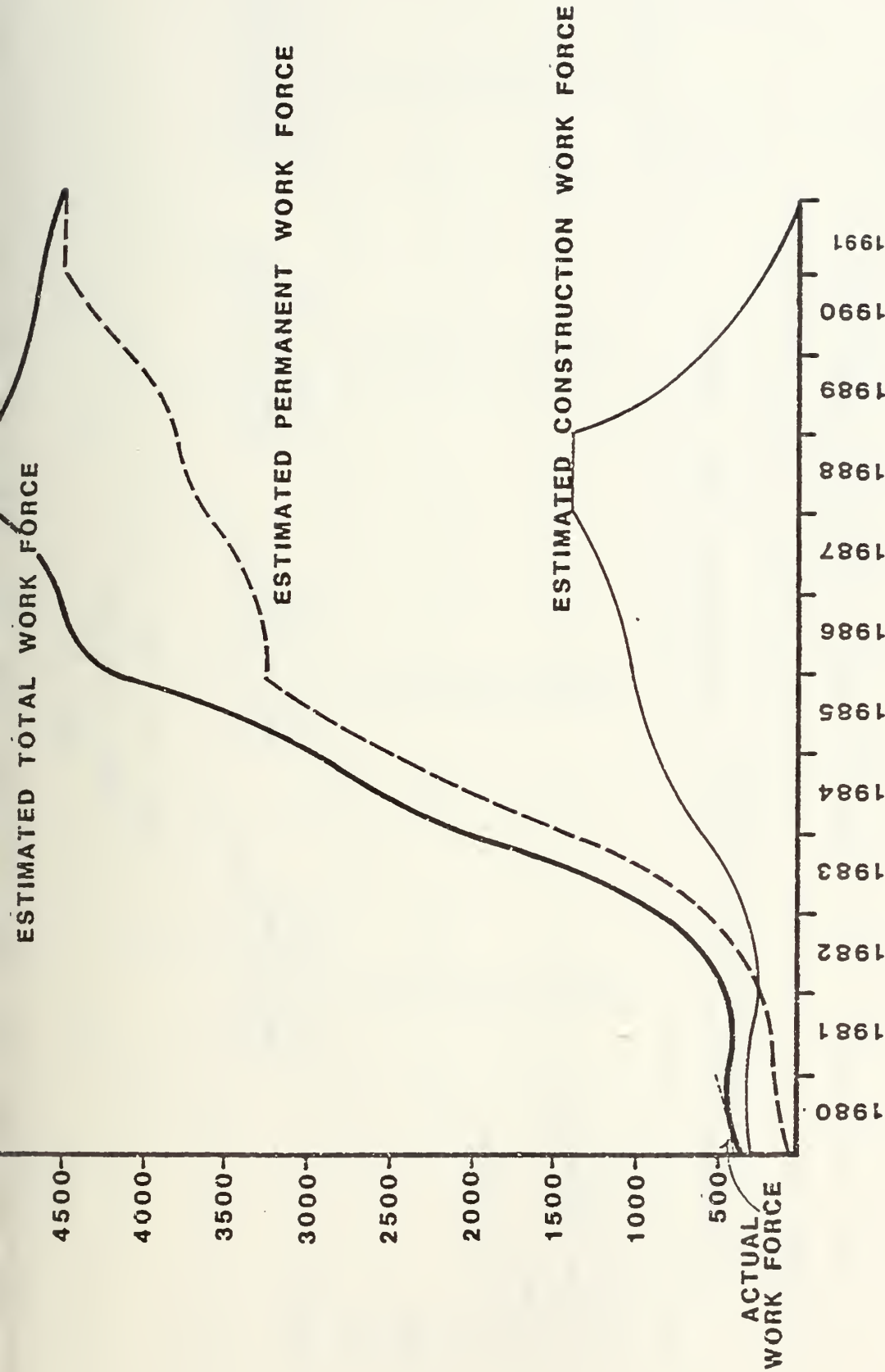


FIGURE A CATHEDRAL BLUFFS SHALE OIL PROJECT MANPOWER REQUIREMENTS

Construction Manpower	290	335	147	420	610	890	1040	1190	1410	1140	230	0
Permanent/Operation Manpower	50	115	216	560	1410	2030	3230	3330	3550	3830	4150	4430
Total Manpower	340	440	363	980	2020	2920	4270	4520	4960	4970	4760	4430
End of Year	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1991

TABLE III

LENGTH OF RESIDENCE

January* and October 1980

Community	Percent of Short** Term Residents January 1980	Percent of Long*** Term Residents January 1980	Percent of Short Term Residents October 1980	Percent of Long Term Residents October 1980
Rifle	56	44	55	44
Meeker	55	45	52	47
Silt	23	77	25	75
Grand Junction Area	29	71	24	76
Parachute	14	86	20	80
All Other Communities	20	80	33	66
Total Work Force	48	52	48	51

* Percentages for January were incorrect in the Monitoring Report Number 6.
The figures presented here are correct.

** Short term is defined as those residing in their current home less than one year.

*** Long term is defined as those residing in their current home more than one year.

TABLE IV
 PERCENTAGE OF WORK FORCE RESIDING FULL TIME
 IN VARIOUS TYPES OF HOUSING
 OCTOBER 1980

Community	Own House	Rent House	Own Mobile Home	Rent Mobile Home	Apartment and Townhouse	RV	Motel	
Rifle								
Total	21	12	14	7	36	5	5	100%
Permanent	39	12	14	5	26	1	1	100%
Temporary	8	8	14	8	41	6	6	100%
Meeker								
Total	21	15	10	0	46	8	0	100%
Permanent	54	8	0	0	38	0	0	100%
Temporary	11	21	11	0	47	10	0	100%
Silt								
Total	35	39	13	0	9	0	4	100%
Permanent	50	17	16	0	17	0	0	100%
Temporary	29	47	12	0	6	0	6	100%
Parachute								
Total	30	40	20	0	10	0	0	100%
Permanent	100	0	0	0	0	0	0	100%
Temporary	15	57	14	0	14	0	0	100%
Grand Junction								
Total	56	22	11	0	11	0	0	100%
Permanent	60	20	20	0	0	0	0	100%
Temporary	52	0	10	24	14	0	0	100%
Total Work Force								
Total	24	17	14	5	32	4	3	100%
Permanent	45	10	13	6	24	1	1	100%
Temporary	17	19	14	6	35	5	4	100%

2. Length of Residence

In Rifle and Meeker, the majority of the project workers continue to be short term residents. The majority of the employees in other local communities are long term residents. (See Table III.)

3. Type

In most communities there has been no significant change in the percentage of workers living in the various types of housing. The largest percentage of workers in Rifle and Meeker live in apartments. A comparison of permanent and temporary employees shows that a larger percentage of permanent workers own their own homes. Table IV lists, by community, the percentage of work force residing in various types of housing. Table IV also gives a percentage breakdown of types of housing occupied by permanent employees and temporary (construction) employees.

4. Preference

When asked to state what type of residence they preferred living in, the majority of the workers continued to indicate single family housing. The percentages of housing preference shown in Table V have remained fairly constant throughout the year.

TABLE V
 PERCENTAGE OF WORKERS BY COMMUNITY
 SHOWING HOUSING PREFERENCE
 OCTOBER 1980

Community	House	Mobile Home	Apartment
Rifle	74	11	14
Meeker	83	3	14
Silt	92	0	8
Parachute	78	11	11
Grand Junction	76	12	12
Total Work Force	77	10	13

When the response to the question on housing preference is compared to actual types of housing in which workers live, those who live in single family housing and mobile homes are least likely to desire other types of housing. Most of those living in apartments, motels, recreational vehicles, and townhouses would prefer some other type of housing. Table VI shows this information in more detail.

TABLE VI
PERCENTAGE OF WORKERS LIVING IN VARIOUS
HOUSING TYPE AND DESIRING CHANGE
OCTOBER 1980

Housing Type	Total Percentage Desiring Changes	Percentage Preferring Apartments	Percentage Preferring Houses	Percentage Preferring Mobile Homes
Apartment	65	*	60	5
House	5	4	*	1
Mobile Home	44	0	44	*
Motel	100	20	80	0
RV	100	21	58	21
Townhouse	93	20	73	0
Total	91	6	39	3

*Percentage is not shown here since numbers may indicate no preference, no response, or same type of housing preference.

5. Cost

The median monthly cost for workers who owned their own homes was \$400; in Rifle the median cost was \$450, and \$365 in Meeker. The median monthly cost for those who rented houses was \$225. When compared with the median cost in January, the October figures in some instances are higher. Table VII shows median cost for various types of housing for January and October, 1980.

TABLE VII

MEDIAN MONTHLY COST OF HOUSING TO THE C-B WORK FORCE

Type	Median Cost Total Work Force January 1980	Median Cost Total Work Force October 1980	Median Cost Rifle October 1980	Median Cost Meeker October 1980
Own House	375	400	450	365
Rent House	200	225	225	250
Mobile Home	195	165	165	100
Apartment	250	265	265	280
RV	135	50	50	100
Townhouse	---	350	350	---

B. Age, Sex, Marital Status, and Family Size

1. Age

The median age of the work force has remained at 29 years since January 1980. Median age of workers in Rifle was 28 and in Meeker it was 29.

TABLE VIII
MEDIAN AGE BY COMMUNITY
OCTOBER 1980

Community	Median Age
Rifle	28
Meeker	29
Silt	30
Grand Junction Area	32
Parachute	30
Total Work Force	29

2. Sex

Eighty-nine percent of the current work force is male; eleven percent is female. This shows about a three percent increase in female employees.

3. Marital Status

The marital status of the overall work force has continued to show that less than half of the workers are married workers living with their families. More than half of the work force in Meeker, Silt, Grand Junction and Parachute are married workers living with their families. Table IX shows the percentage of workers by community according to marital status.

TABLE IX
MARITAL STATUS OF WORK FORCE
OCTOBER 1980

Community	Percent Married and Living with Family	Percent Married But Not Living With Family Full-Time	Percent Single	
Rifle	47	36	17	100%
Meeker	52	12	11	100%
Silt	54	13	33	100%
Grand Junction Area	67	0	33	100%
Parachute	70	0	30	100%
Total Work Force	49	15	36	100%

4. Family Size

The average family size of all married workers is 2.7 persons. Table X shows average family size of all married workers according to community.

3. Marital Status

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4. Family Size

The average family size of all married workers is 2.7 persons. Table X shows average family size of all married workers according to community.

Some workers in Rifle and Meeker indicated they are planning on moving their families into the community in the near future. Workers in Rifle indicated they will move in two pre-school, four elementary, one junior high and two senior high school children. Only two pre-school children are planning to move to Meeker.

C. Recreational Activities

Fishing, hunting, skiing, and camping continue to be the most popular recreational activities of the work force. Table XII shows the percentage of workers who indicated a preference for the most popular recreation activities.

TABLE XII
RECREATIONAL PREFERENCE OF WORKERS SURVEYED
OCTOBER 1980

Activity	Percent Responding* of Total Work Force	Percent Responding* in Meeker	Percent Responding in Rifle*
Fishing	37	15	40
Hunting	31	10	31
Skiing	14	5	18
Camping	11	6	11
Swimming	6	3	5
Golf	5	5	5
Tennis	4	3	4
Horseback Riding	2	4	5
All Sports	8	3	10

* Percentage does not total to 100 due to multiple response.

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(June 1984)

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